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Suresh Gyan Vihar University, Jaipur
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Paper Submission Deadline: June 25, 2018

Paper submission Link: https://easychair.org/conferences/?conf=iccs20181

Conference Website: http://iccs2018.iaasse.org/

Topic	Analysis of Big Data and mining data
Session Chair	Nripendra Narayan Das
Organization	Manav Rachna International University, Faridabad
Mobile	09810548589
E-mail	nripendradas@gmail.com

Objectives

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In the world of today, modern information systems are able to collect very large data with inherent and increasing complex structure and dimensionality. Furthermore, new data sources often provide various heterogeneous representations and also time changing characteristics with respect to the data. This is particular visible in the rapidly developing field of Big Data Analytics. Although machine learning and data mining researchers had already studied mining massive and complex data, there are significant differences between earlier efforts and the current trends opening up new problems and challenges. Indeed, Big Data Analytics opens up new research problems which were only considered within a limited range. Applications of Big Data Analytics may also influence human behavior and society in a significantly higher degree than before – which also requires new types of research. Furthermore, new Big Data challenges are particularly relevant in emerging applications where data are continuously generated at a high rate in the form of data streams, whose characteristics may also change with time (concept drifting data). Compared to static, standard environments, processing data streams implies new computational challenges and requirements for algorithms and their ability to adapt to such dynamic and complex contexts.

In order to address these new research challenges concerning both the analysis of Big Data and mining data streams, respectively, I am interested to organize this special session. I will try to gather researchers from all over the world coming from different communities being interested in the

aforementioned issues, as well as to present algorithmic foundations and application aspects of analyzing these new types of data.

Topics of interest

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Suggested topics include (but are not limited to) the following:

- Learning from high-dimensional datasets
- Mining non-standard data representations
- Large-scale link and graph mining
- Scaling up learning algorithms
- Distributed data mining approaches
- Knowledge discovery from ubiquitous environments
- Analysis of data from sensors and social media
- Online learning algorithms.
- Detection and adaptation to concept drift
- Evaluation issues of models learned from evolving data streams
- Classification and clustering in data streams
- Privacy in big and stream data analytics
- Societal aspects of applying Big Data
- Applications, especially in scientific data analysis, computational social science, medicine, text processing, web mining, image or multimedia analysis, sensor networks, industrial contexts, bio-informatics, energy management, and related domains.